

Annual Report of Operations for Year ²⁰¹⁶

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

NPDES # for your Facility:	
WAG-130012	
Facility & Owner Information	
Facility Name: Bernie Kai Kai Gobin Salmon Hatchery	
Operator Name (Permittee): Tulalip Tribes	
Address: 10610 Waterworks Road Tulalip, WA 98271	
Email: mcrewson@tulaliptribes-nsn.gov	Phone: (360)716-4626
Owner Name (if different from operator): same	
Email:	Phone:
Best Management Practices (BMI	P) Plan
Has the BMP Plan been reviewed this year?	□ No
Does the BMP Plan fulfill the requirements of the Gene	ral Permit? 📕 Yes 🗌 No
Summarize any changes to the BMP Plan since the last Changes include all adaptations to comply wi	· ·

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Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs): 29,138 gained, 62,838 total Pounds of food fed to fish during the maximum month: 7,964

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month Released/ Spawned
Chinook	16,411lb	Transferred to Tulalip Bay	May
Yearling	27,694	Transferred to Tulalip Bay	trans Jan
chum	1,776	Transferred to Tulalip Bay	April
subyearling coho	16,957	rearing and not yet released	N/A

Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month**.

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	26,360	2,904	July	7,874	2,024
February	35,000	4.356	August	6,868	2,904
March	13,288	7,964	September	16,564	3,916
April	12,900	5,601	October	19,405	3,960
May	6,177	1,923	November	23,052	2,376
June	6,804	2,024	December	23,052	1,584

Additional Comments:		

Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
920 lbs of spawned coho	10/27/16-12/23/16	Offsite burial pit
3,825 lbs of spawned chum	10/27/16-12/23/16	Offsite burial pit
367.1 lbs of dead eggs (all species	9/16/16-12/23/16	Offsite burial pit
Additional Comments: Buried in quicklime		

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

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ditional Comments:		<u></u>
	ortalities at this facility	

Noncompliance Summary

Include a description and the dates of noncompliance events (including spills), the reasons for the incidents, and the steps taken to correct the problems. Attach additional pages, if necessary.
No noncompliance events

Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired

Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical **during the past calendar year**. Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes ■ No	Azithromycin
□ Yes ■ No	Chloramine-T: See additional reporting requirements on page 7
□ Yes ■ No	Chlorine
□ Yes ■ No	Draxxin
□ Yes ■ No	Erythromycin - injectable
□ Yes ■ No	Erythromycin - medicated feed
■ Yes □ No	Florfenicol (Aquaflor)
■ Yes □ No	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
□ Yes ■ No	Herbicide - describe:
□ Yes ■ No	Hormone - describe:
□ Yes ■ No	Hydrogen Peroxide: See additional reporting requirements on page 7
□ Yes ■ No	lodine: See additional reporting requirements on page 7
□ Yes ■ No	Oxytetracycline
⊒ Yes □ No	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes ■ No	Romet
□ Yes ■ No	SLICE (emamectin benzoate)
□ Yes ■ No	Sodium Chloride - salt
□ Yes ■ No	Vibrio vaccine
□ Yes □ No	Other:
□ Yes □ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Potassium Permanganate		Generic Name:		
Reason for use: Bacterial gill disease				
☐ Preventative/Prophylactic ☐ As-needed	Total quantity of formulated product per treatment (specify units):1,764 g	Total quantity of formulated p (specify units): 8.82 Kg	roduct used in past year	
Date(s) of treatment: 3/25/16,3/26/16,3/29/	16-4/1/16		Total number of treatments in past year:	
Maximum daily volume of treated water: 2,590 gal	Treatment concentration (specify units): 2 mg/L	Duration and frequency of treat	tment(s):	
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed ☐ Other (describe):		
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	Ponds Off-line settling basin	☐ Other (describe):	
Where did water treated with this chemical go? (check all that apply):	■ Discharged w/o treatment □ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):	
Provide any additional information about how this chemical was used and/or special pollution prevention practices during use:			evention practices during use:	
Brand Name: Aquaflor		Generic Name: Florfenico	ol	
	of cold water disease	Generic Name: Florfenico	ol	
	of cold water disease Total quantity of formulated product per treatment: 1012 lbs medicated feed	Total quantity of formulated p		
Reason for use: Treatment Preventative/Prophylactic	Total quantity of formulated product per treatment:	Total quantity of formulated p	roduct used in past year	
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment:	Total quantity of formulated product per treatment: 1012 lbs medicated feed Treatment concentration (specify units):	Total quantity of formulated p	roduct used in past year medicalled feed Total number of treatments in past year: 1 tment(s):	
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 4/28/16-5/4/16 Maximum daily volume of treated water:	Total quantity of formulated product per treatment: 1012 lbs medicated feed Treatment concentration (specify units):	Total quantity of formulated p (specify units): 10012 lbs in	roduct used in past year medicalled feed Total number of treatments in past year: 1 tment(s):	
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 4/28/16-5/4/16 Maximum daily volume of treated water: N/A*or 2,304,000 gal	Total quantity of formulated product per treatment: 1012 lbs medicated feed Treatment concentration (specify units): 15 mg/kg of fish	Total quantity of formulated p (specify units): 10012 lbs m Duration and frequency of trea Duration= 10 days,	roduct used in past year medicalled feed Total number of treatments in past year: 1 tment(s):	
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 4/28/16-5/4/16 Maximum daily volume of treated water: N/A*or 2,304,000 gal Method of application: Location in facility chemical was used	Total quantity of formulated product per treatment: 1012 lbs medicated feed Treatment concentration (specify units): 15 mg/kg of fish Static Bath Flow-through	Total quantity of formulated p (specify units): 10012 lbs m Duration and frequency of trea Duration= 10 days, ■ Medicated Feed □ Other (describe): □ Ponds	roduct used in past year medicalized fleed Total number of treatments in past year: 1 tment(s): Frequency= 1 treat	

EPA General Permit WAG130000 - Annual Report Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Formalin		Generic Name:	
Reason for use: Fungus co	ntrol		
☐ Preventative/Prophylactic☐ As-needed	Total quantity of formulated product per treatment (specify units) 2 mg/L	Total quantity of formulated possible (specify units): 8.82 Kg	roduct used in past year
Date(s) of treatment: 9/21/16-12/28/16 varie	ous days		Total number of treatments in past year: 51
Maximum daily volume of treated water: 3,168 gal	Treatment concentration (specify units): 1667 mg/L	Duration and frequency of treat 15 min per day	ment(s):
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional information	on about how this chemical was u	ised and/or special pollution pre	vention practices during use:
Brand Name:		Generic Name:	
Brand Name:		Generic Name:	
	Total quantity of formulated product per treatment:	Generic Name: Total quantity of formulated p (specify units):	roduct used in past year
Reason for use:		Total quantity of formulated p	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed		Total quantity of formulated p	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of	product per treatment: Treatment concentration	Total quantity of formulated p (specify units):	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water:	Treatment concentration (specify units):	Total quantity of formulated p (specify units): Duration and frequency of treat Medicated Feed	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water: Method of application: Location in facility chemical was used	Treatment concentration (specify units): Static Bath Flow-through	Total quantity of formulated p (specify units): Duration and frequency of treat Medicated Feed Other (describe):	Total number of treatments in past year: tment(s):

Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments		
Tank Volume	Liters	
Desired Static Bath Treatment Concentration	µg/L	
Volume of Product Needed	Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Active Ingredient: Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units	
Maximum % of Facility Discharge Treated	% of Total Discharge	
Flow-	-Through Treatments	
Tank Volume	1,030,120 Liters	
Calculated Flow Rate	9,804 Liters/Minute	
Duration of Treatment	90 Minutes	
Desired Flow-Through Treatment Concentration of Product	2000 µg/L	
Amount of Product to Add Initially	0 Liters Product	
Amount of Product to Add During Treatment	19.6 g/min mL/Minute	
Total Volume of Product Needed	1.764 Kg Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 1.17 mg/L Potassium Permanganate Active Ingredient: 1.17mg/L Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	6,395,385 gal per day Specify Units	
Maximum % of Facility Discharge Treated	58.32% % of Total Discharge	

Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

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Desired Static Bath Treatment Concentration	µg/L	
Volume of Product Needed	Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Active Ingredient: Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units	
Maximum % of Facility Discharge Treated	% of Total Discharge	
Flow-	-Through Treatments	
Tank Volume	4430 L* (see calcs provided) Liters	
Calculated Flow Rate	1,103 Liters/Minute	
Duration of Treatment	15 Minutes	
Desired Flow-Through Treatment Concentration of Product	1,667 µg/L	
Amount of Product to Add Initially	0 Liters Product	
Amount of Product to Add During Treatment	1,387 mL/Minute	
Total Volume of Product Needed	20.81 Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 107.9 mg/L Formalin Active Ingredient: 39.9 mg/L formaldehyde Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	18,516,133 gal per day Specify Units	
Maximum % of Facility Discharge Treated	8.58%	

% of Total Discharge

Changes to the Facility or Operations

Describe any changes to the facility or operations since the last annual report.		
Changes included all adaptations required to comply with all new permitting		

Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Melin Sheller &	
Printed name of person signing	Title
Melvin Sheldon Jr.	Chaimen
Applicant Signature	Date Signed 1/20/17

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191 Washington Hatchery Annual Report 1200 Sixth Avenue, Suite 900 Seattle, WA 98101-3140